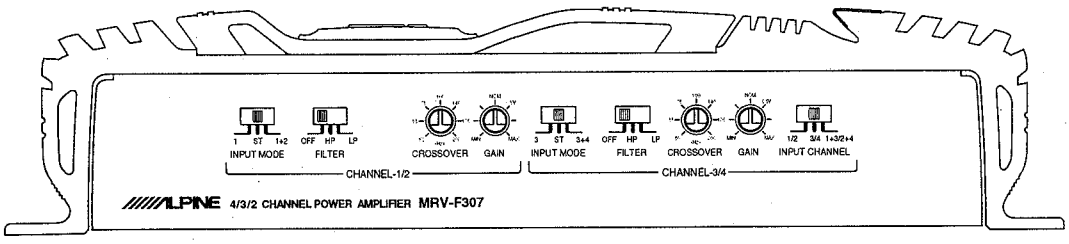
ALPINE

SERVICE MANUAL

4/3/2 Channel Power Amplifier



サービス費用区分	B
技 術 資 料 No.	PM-81-O

MRV-F307

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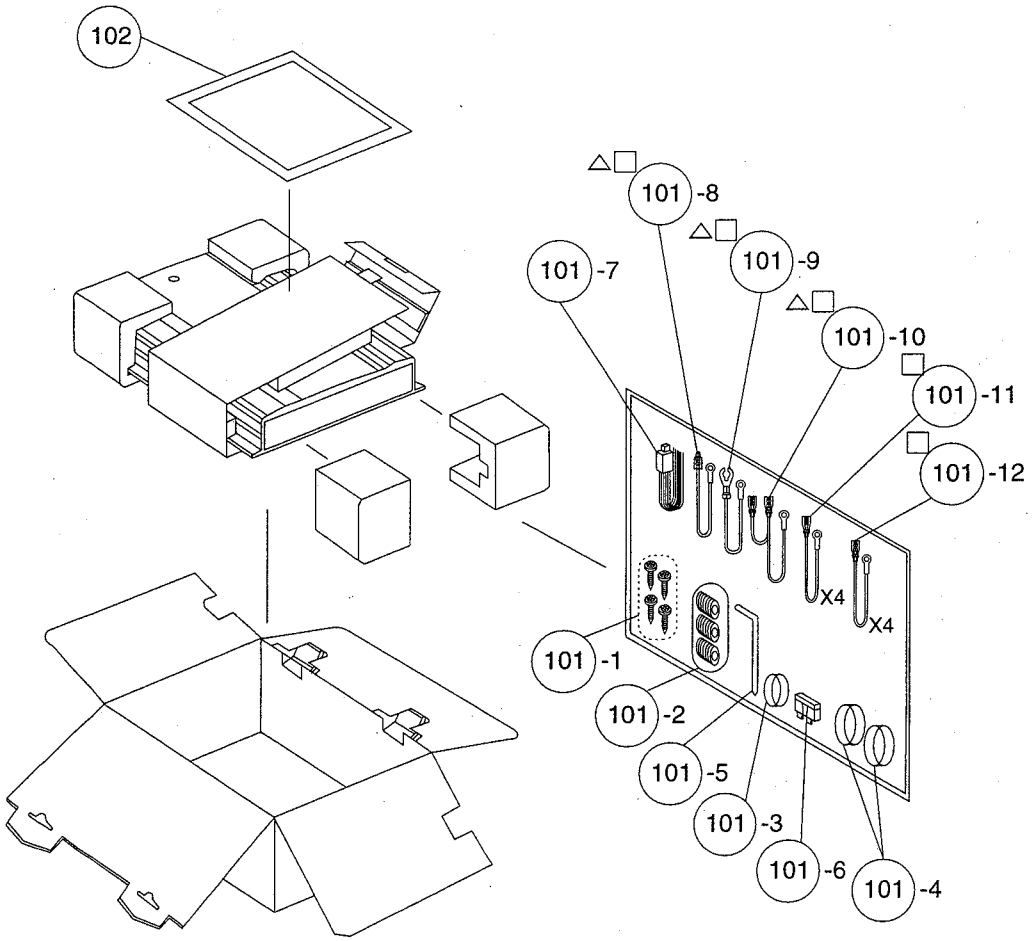
NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

Symbol No.	Part No.	Description
	101-1	03E11447S01	Screw, TPG (M4X14)
	101-2	03E29353S01	Screw (M4X10)
	101-3	75E29296S01	Housing Rubber-A
	101-4	75E22440S01	Housing Rubber-C
	101-5	01E28659S01	Wrench
	101-6	65E25308S01	Fuse, Auto 30A (For Battery Line)
	101-7	01E29389S01	Assy., Kit SP-IN Wire
△	101-8	01E29399S01	Assy., Battery Wire
□	101-8	01E29399S01	Assy., Battery Wire
△	101-9	01E29400S01	Assy., GND Wire
□	101-9	01E29400S01	Assy., GND Wire
△	101-10	01E29401S01	Assy., Remote Wire
□	101-10	01E29401S01	Assy., Remote Wire
□	101-11	01E22152S01	Assy., Speaker Wire (+)
□	101-12	01E22153S01	Assy., Speaker Wire (-)
○	102	68P01149K68	Owner's Manual
△	102-1	68P01149K69	Owner's Manual (ENGLISH/FRANCAIS/ESPANOL)
△	102-2	68P01149K70	Owner's Manual (DEUTSCH/ITALIANO/SVENSKA)
□	102	68P01149K71	Owner's Manual

NOTE : ○ : For North American Model Only, △ : For General Foreign Model Only,
□ : For Japanese Model Only, Others : Common.

Packing Method View



NOTE : ○ : For North American Model Only, △ : For General Foreign Model Only,
□ : For Japanese Model Only, Others : Common.

MRV-F307

Specifications

T.H.D. (Stereo, 20Hz/1kHz/20kHz)	50W/ch, 4ohm-4channel, 14.4V, L.P.F.-80kHz : 0.2%
	30W/ch, 4ohm-4channel, 12V, L.P.F.-80kHz : 0.2%
	60W/ch, 2ohm-4channel, 14.4V, L.P.F.-80kHz : 0.8%
	40W/ch, 2ohm-4channel, 12V, L.P.F.-80kHz : 0.8%
(BTL, INPUT MODE MONO, 20Hz/1kHz/20kHz)	130W/ch, 4ohm-2channel, 14.4V, L.P.F.-80kHz : 0.8%
	80W/ch, 4ohm-2channel, 12V, L.P.F.-80kHz : 0.8%
Power Output (Stereo, 20Hz/1kHz/20kHz)	4ohm-4channel, 0.2% T.H.D., 14.4V, L.P.F.-80kHz : 40W
	4ohm-4channel, 0.2% T.H.D., 12V, L.P.F.-80kHz : 30W
	2ohm-4channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 50W
	2ohm-4channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 35W
(BTL, INPUT MODE MONO, 20Hz/1kHz/20kHz)	4ohm-2channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 100W
	4ohm-2channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 70W
S/N Ratio (Ref. Output 50W/4ohm, Input shorted)	95dB
Input Sensitivity (50W Output)	GAIN-VR (CENTER) : RCA : 1V±3dB
	SP : 2V±3dB
	GAIN-VR (MAX) : RCA : 0.2V+5, -3dB
	SP : 0.4V+5, -3dB
	GAIN-VR (MIN) : RCA : 4V+5, -3dB
	SP : 8V+5, -3dB
(PREOUT Level, 1V Output)	1V+1, -3dB
Input Impedance	RCA : 11kohm±10%
	SP : 15ohm±10%
Frequency Response (0±1dB, Ref. 1kHz)	20Hz~50kHz
Current Drain	No Signal : 1.5A
	4ohm-4channel, 10% T.H.D. : 35A
	2ohm-4channel, 10% T.H.D. : 55A
	4ohm-2channel, BTL 150W : 50A
Residual Noise (Input Shorted)	VR CENTER, MIN : 3mV
	VR MAX. : 10mV
Channel Separation (Input Shorted, 1kHz, 50W×4channel)	55dB
Remote on Voltage (1W Output)	6.5 +1, -1.5V
Remote Current Drain	1.3±0.5mA
Back Up Current Drain	1.2mA
Fuse Requirement	30A (For Battery Line)
Power Source	DC14.4V (9~16V)
Dimensions (W×H×D)	260×60×270mm
Weight	4.3kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

1. Power Supply Voltage Adjustment

電源電圧調整

(1) Connection

接続

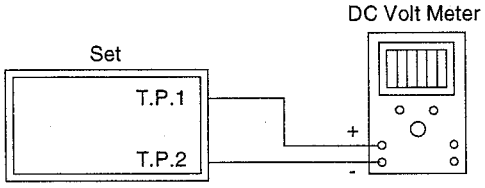


Figure 1
1図

BATTERY : DC14.4V
REMOTE : DC6.5+1, -1.5V
No Signal Input

(2) Adjustment Procedures

調整方法

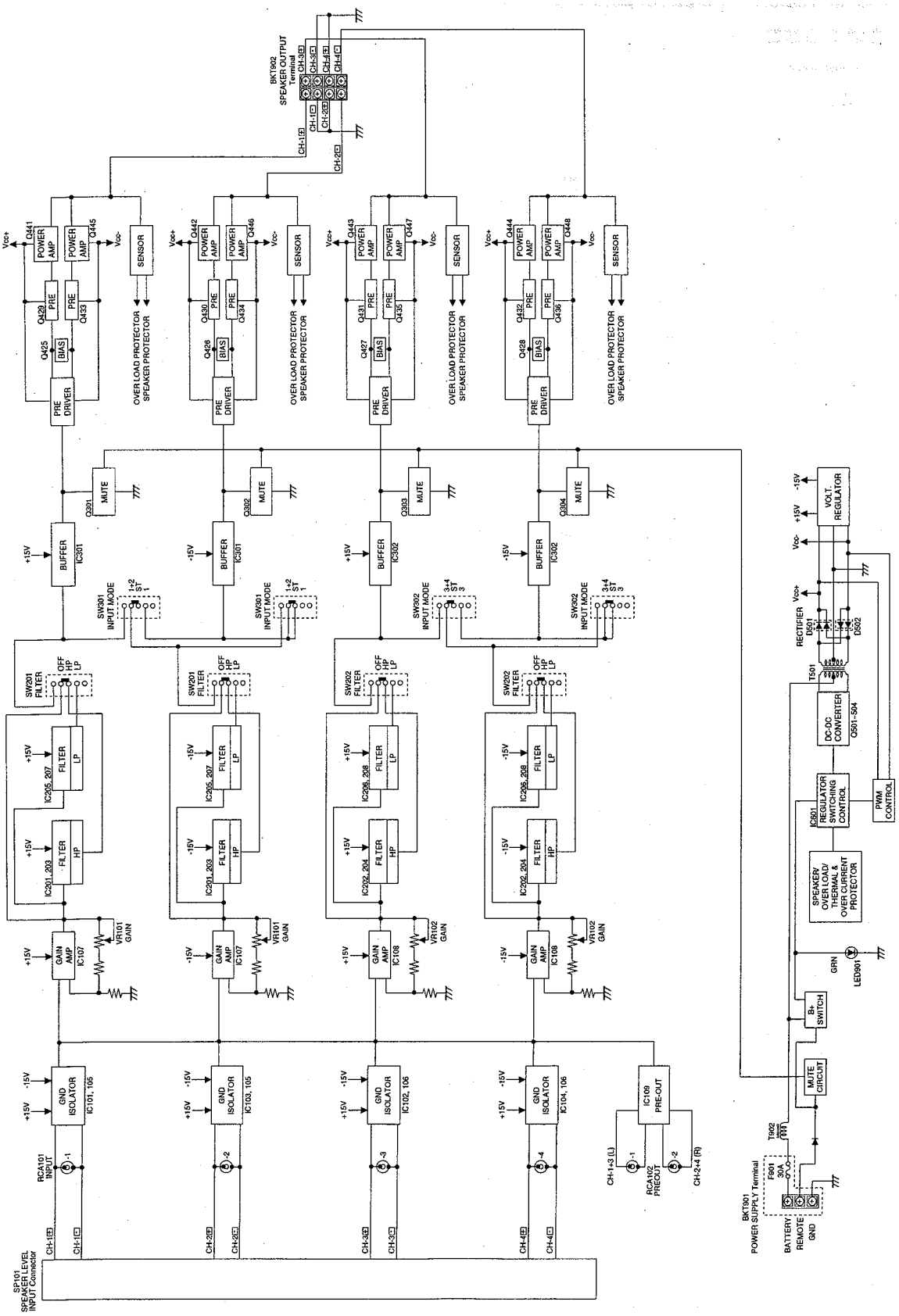
Adjust VR601 so that Voltage between T.P.1 and T.P.2 reaches 53±1V.
T.P.1とT.P.2との間の電圧が53±1Vになる様にVR601で調整する。

NOTE : For the Adjustment Parts and Test Points, refer to the Parts Layout on P.W. Boards and Wiring Diagram.

注記 : 調整部品及びテストポイントの詳細については、「Parts Layout on P.W. Boards and Wiring Diagram」を参照願います。

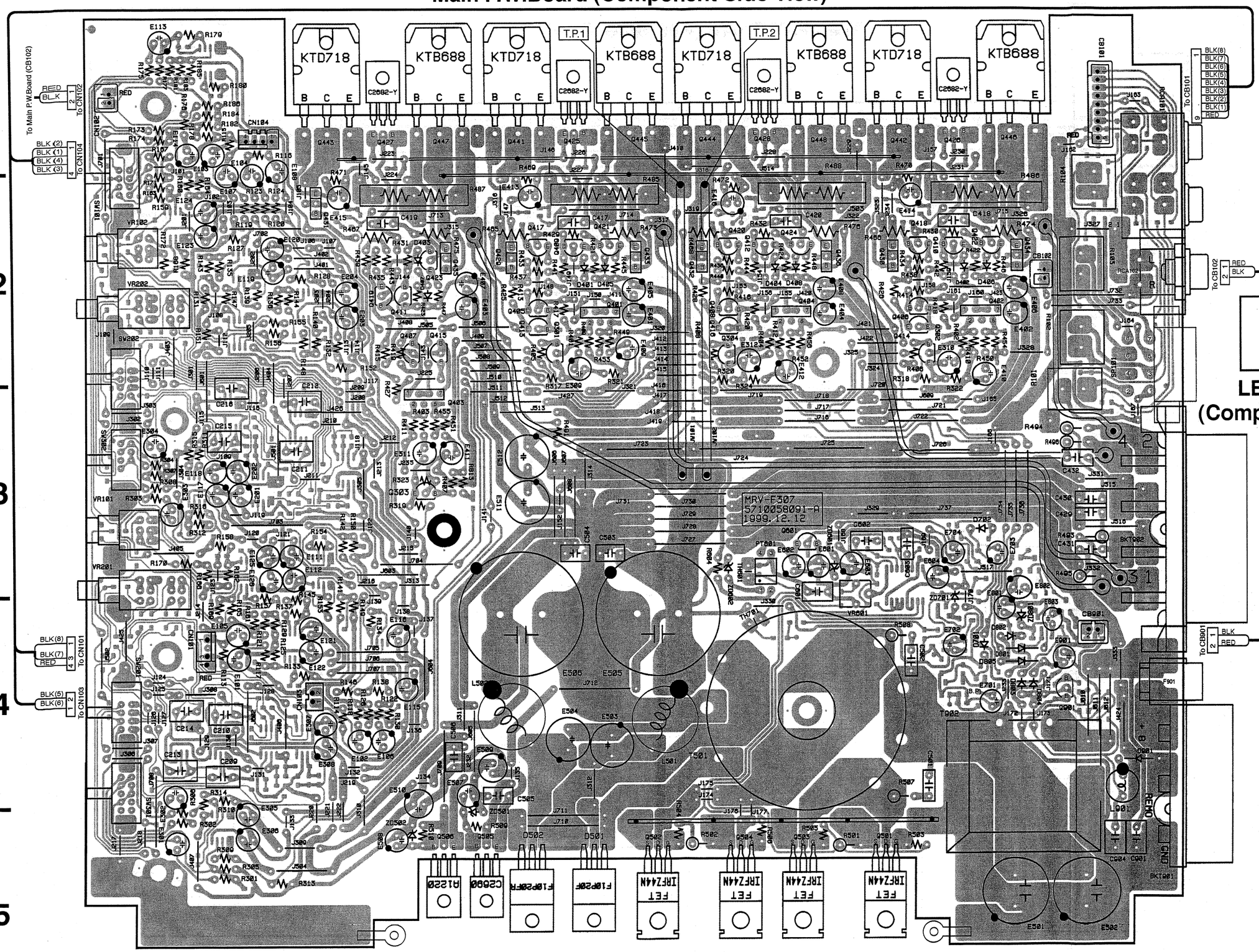
MRV-F307

Block Diagram



Parts Layout on P.W.Boards and Wiring Diagram (1/2)

Main P.W.Board (Component Side View)



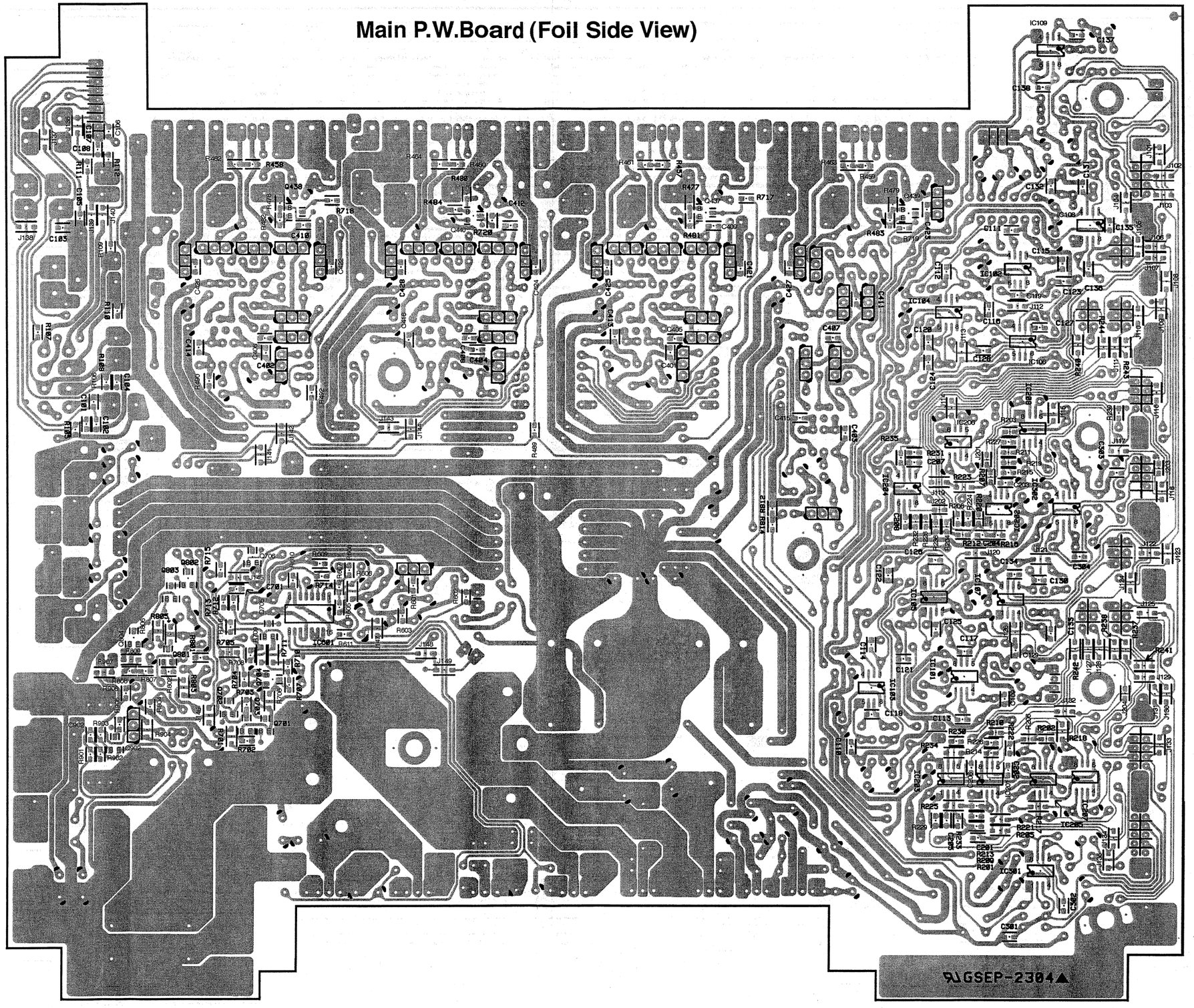
LED P.W.Board (Component Side View)

LED P.W.Board (Foil Side View)

Blue Color Pattern : Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (2/2)

Main P.W.Board (Foil Side View)

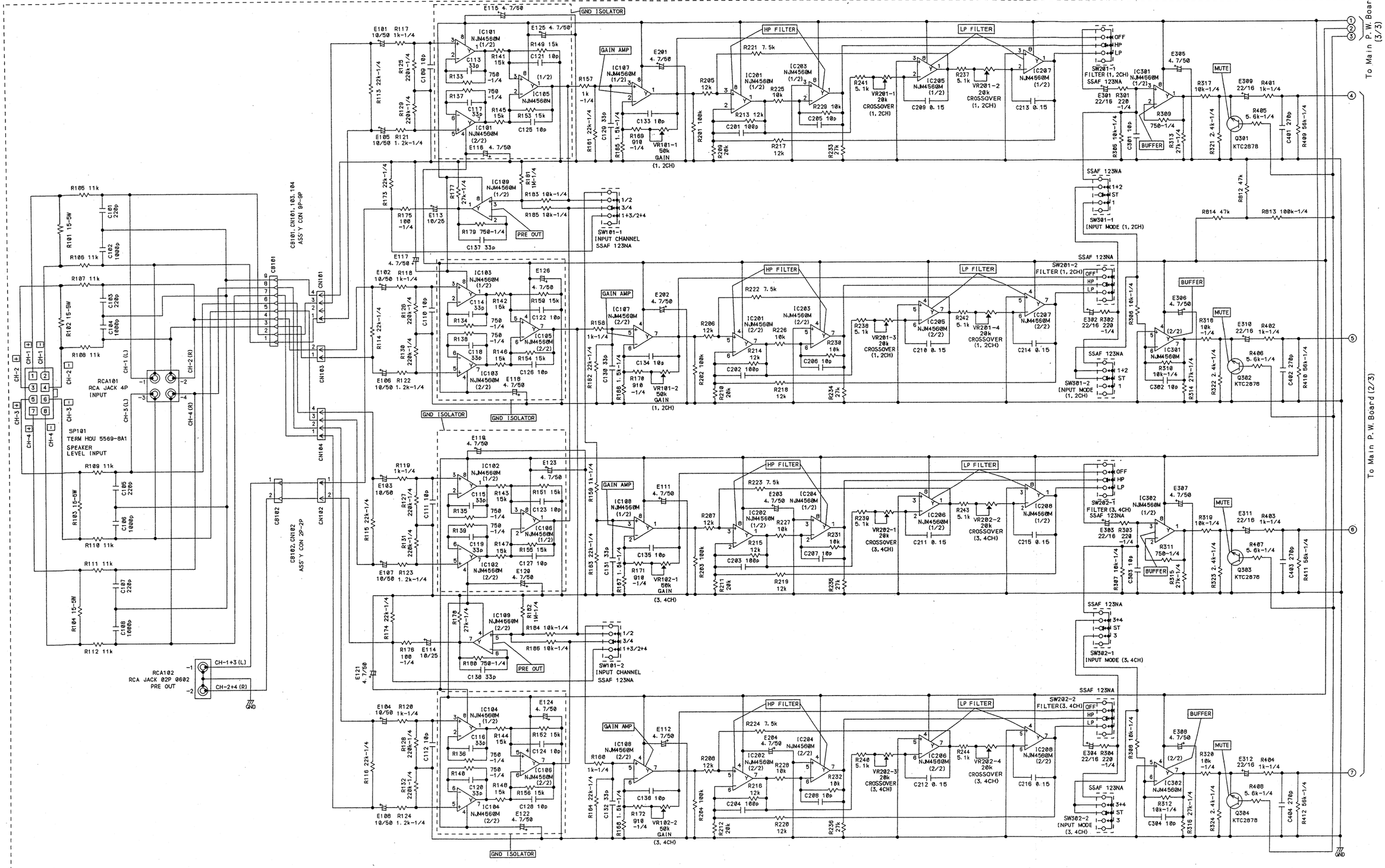


Blue Color Pattern : Foil Side Pattern

Schematic Diagram (1/3)

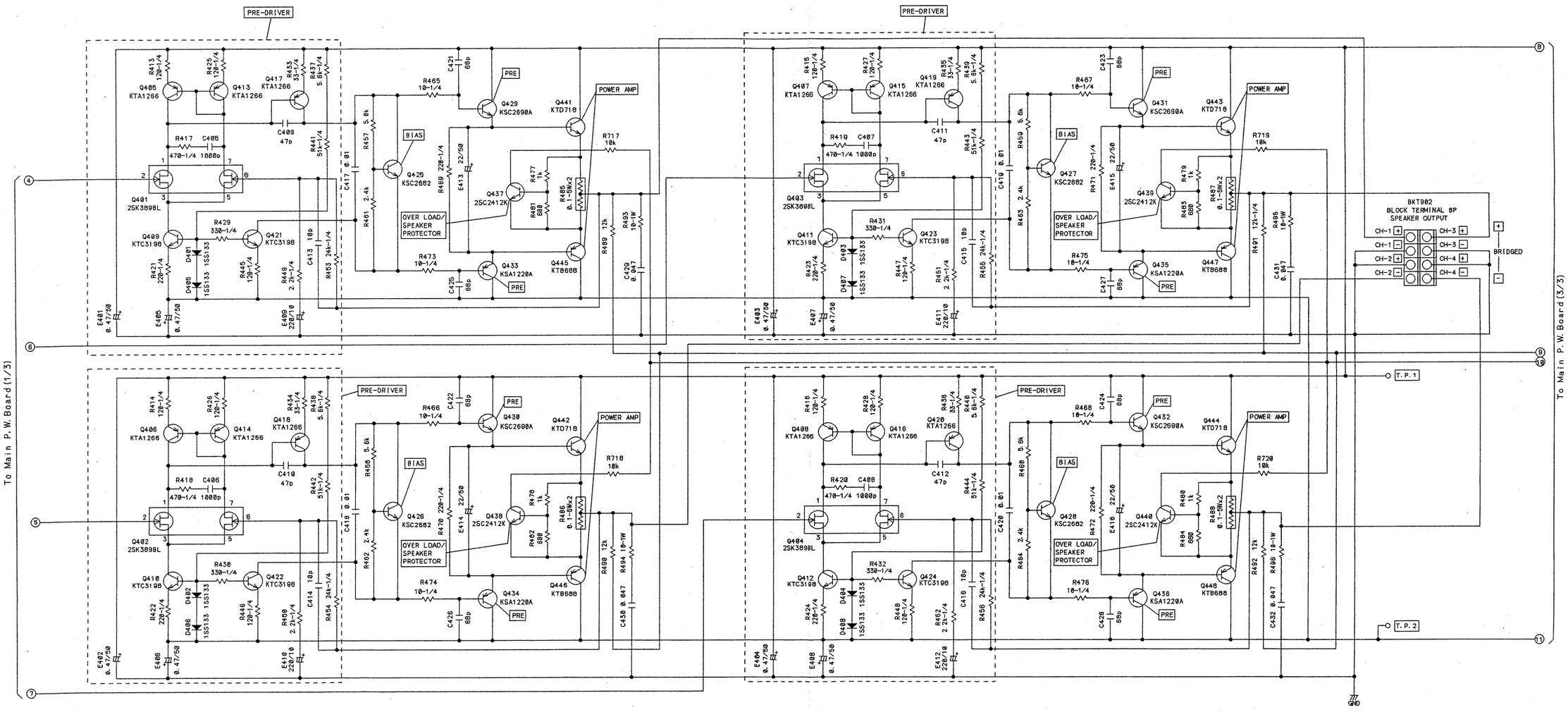
MRV-F307

Main P.W. Board (1/3)


GND ISOLATOR
GAIN AMP
HP FILTER
LP FILTER
BUFFER
MUTE
PRE OUT
SSAF 123NA
SW101-1 INPUT CHANNEL SSAF 123NA
SW201-1 FILTER (1, 2CH) SSAF 123NA
SW301-1 INPUT MODE (1, 2CH)
SW201-2 FILTER (1, 2CH)
SW301-2 INPUT MODE (1, 2CH)
SW102-1 INPUT CHANNEL SSAF 123NA
SW202-1 FILTER (3, 4CH) SSAF 123NA
SW302-1 INPUT MODE (3, 4CH)
SW102-2 FILTER (3, 4CH)
SW302-2 INPUT MODE (3, 4CH)
VR101-1 50k GAIN (1, 2CH)
VR101-2 50k GAIN (3, 4CH)
VR201-1 20k CROSSOVER (1, 2CH)
VR201-2 20k CROSSOVER (1, 2CH)
VR201-3 20k CROSSOVER (3, 4CH)
VR201-4 20k CROSSOVER (1, 2CH)
VR202-1 20k CROSSOVER (3, 4CH)
VR202-2 20k CROSSOVER (3, 4CH)
VR202-3 20k CROSSOVER (3, 4CH)
VR202-4 20k CROSSOVER (3, 4CH)
RCA101 RCA JACK 4P INPUT
SP101 TERM HOU 5569-8A1 SPEAKER LEVEL INPUT
RCA102 RCA JACK 02P 0602 PRE OUT
CB101, CN101, 103, 104 ASS'Y CON 8P-8P
CB102, CN102 ASS'Y CON 2P-2P
To Main P.W. Board (2/3)
To Main P.W. Board (3/3)
GND

Schamatic Diagram(2/3)

Main P.W.Board(2/3)



Schematic Diagram(3/3)

Main P.W. Board(3/3)

To Main P.W. Board (1/3)

To Main P.W. Board(2/3)

DC/DC CONVERTER

T501 ASS'Y POWER TRANS

L501 38uH

L502 38uH

D501 F10P20F

D502 F10P20FR

Q501 IRFZ44N

Q502 IRFZ44N

Q503 IRFZ44N

Q504 IRFZ44N

R501 1Ω-1W

R502 1Ω-1W

R503 10-1/4W

R504 10-1/4W

R505 10-1/4W

R506 10-1/4W

R507 10-1W

R508 10-1W

C501 0.022

C502 0.022

C503 0.047

C504 0.047

E501 3300/16

E502 3300/16

E503 470/35

E504 470/35

E505 6800/35

E506 6800/35

E511 330/35

E512 330/35

GND

Q505 KSC2690A

Q506 KSA1220A

R509 2.7k-1/4W

R510 2.7k-1/4W

E507 22/50

E508 22/50

ZD501 MTZJ16B

ZD502 MTZJ16B

E509 220/16

E510 220/16

C505 0.056

C506 0.056

VOLT. REGULATOR

PWM CONTROL

Q601 KTC3198

PT601 PS2501-1

R604 8.2k-1/4W

ZD602 MTZJ22B

R601 10k

E601 10/25

ZD601 MTZJ6.8A

E602 10/25

C601 0.1

R603 510

R602 4.7k

TH601 20k

VR601 1k

E605 100/10

R605 11k

R606 2.4k

C602 0.1

R607 100k

R608 82k

R611 10

REGULATOR SWITCHING CONTROL

IC601 uPC494GS

ERROR AMP

ERROR AMP

0.1V

REFERENCE REGULATOR

OUTPUT CONTROL

OSCILLATOR

R609 10k

C603 1500p

R610 10k

E604 100/16

D701 1SS133

Q702 2SA1037K

Q701 2SC2412K

Q703 2SC2412K

Q704 2SA1037K

Q705 2SC2412K

Q706 2SA1037K

E702 2.2/50

R704 3.3k

R706 1k

R701 1k

R703 1k

R702 1k

R707 20k

R708 100k

R709 20k

R710 22k

R711 150

R708 5.6k

E701 100/10(B.P)

ZD701 MTZJ22B

TH701 20k

R712 10k

C701 1000p

R713 10k

R714 240k

E704 220/10

D702 1SS133

E703 100/10

R715 22k

R716 510k

BKT901 FUSE TEMINAL 3P-M4 (INS) POWER SUPPLY

BATTERY

REMOTE

GND

F901 30A

T902 CHOKE.TRANS

B+ SWITCH

MUTE CIRCUIT

Q901 KTA1266

Q902 DTC143EK

Q801 2SA1037K

Q802 DTA144EK

Q803 DTC144EK

Q804 2SC2412K

D901 (N4003)

L901 100uH

R901 10k

C901 0.15

R902 5.6k

C902 1000p

R903 100

R904 3.3k

R905 2.7k

R906 7.5

R907 1k

R801 12k

D801 (N4003)

D802 1SS133

D803 1SS133

D804 1SS133

R802 100k

R803 4.7k

R805 2k

R806 100k

R809 680k

D805 (N4003)

ZD801 MTZJ6.8A

E801 10/25

R804 10k

C804 0.1

E802 10/25

R807 2k

E803 10/25

R808 1M

R807 1k-1/4W

CB901 CONN BASE. GIL-S-02P-S2T2

LED P.W. Board

CN901 2P CONNECTOR ASS'Y

LED901 SG5511

C903 100n

SPEAKER/OVER LOAD/THERMAL&OVER CURRENT PROTECTOR

Terminal Voltage of IC/TR

IC101~109

1~3	0V
4	-15.1V
5~7	0V
8	15V

IC201~208

1~3	0V
4	-15.1V
5~7	0V
8	15V

IC301, 302

1~3	0V
4	-15.1V
5~7	0V
8	15V

IC601

1, 2	0.97V
3	3.8V
4	0.2V
5	1.7V
6	3.8V
7	0V
8	14.3V
9, 10	0.7V
11, 12	14.3V
13~15	5.1V
16	0V

	G	D	S
Q501	0.7V	14.4V	0V
Q502	0.7V	14.4V	0V
Q503	0.7V	14.4V	0V
Q504	0.7V	14.4V	0V

	E	C	B		E	C	B		E	C	B
Q301	0V	0V	-7.6V	Q422	-26.2V	-1.1V	-25.6V	Q443	0V	26.5V	0V
Q302	0V	0V	-7.6V	Q423	-26.2V	-1.1V	-25.6V	Q444	0V	26.5V	0V
Q303	0V	0V	-7.6V	Q424	-26.2V	-1.1V	-25.6V	Q445	0V	-26.5V	0V
Q304	0V	0V	-7.6V	Q425	-1.1V	1.1V	-0.5V	Q446	0V	-26.5V	0V
Q405	26.6V	26V	26V	Q426	-1.1V	1.1V	-0.5V	Q447	0V	-26.5V	0V
Q406	26.6V	26V	26V	Q427	-1.1V	1.1V	-0.5V	Q448	0V	-26.5V	0V
Q407	26.6V	26V	26V	Q428	-1.1V	1.1V	-0.5V	Q505	15V	26.5V	15.6V
Q408	26.6V	26V	26V	Q429	0.6V	26.5V	1.1V	Q506	-15.1V	-26.5V	-15.7V
Q409	-25.4V	0.3V	-26V	Q430	0.6V	26.5V	1.1V	Q601	8.1V	14.3V	8.7V
Q410	-25.4V	0.3V	-26V	Q431	0.6V	26.5V	1.1V	Q701	0V	26.5V	0V
Q411	-25.4V	0.3V	-26V	Q432	0.6V	26.5V	1.1V	Q702	26.5V	0V	26.5V
Q412	-25.4V	0.3V	-26V	Q433	-0.6V	-26.5V	-1.1V	Q703	0V	26.5V	0V
Q413	26.6V	26V	26V	Q434	-0.6V	-26.5V	-1.1V	Q704	26.5V	0V	26.5V
Q414	26.6V	26V	26V	Q435	-0.6V	-26.5V	-1.1V	Q705	0V	5.1V	0V
Q415	26.6V	26V	26V	Q436	-0.6V	-26.5V	-1.1V	Q706	5.1V	0V	5.1V
Q416	26.6V	26V	26V	Q437	0V	26.5V	0V	Q801	6.4V	0V	6.4V
Q417	26.3V	1.1V	25.9V	Q438	0V	26.5V	0V	Q802	14.4V	-7.6V	14.4V
Q418	26.3V	1.1V	25.9V	Q439	0V	26.5V	0V	Q803	0V	14.4V	0V
Q419	26.3V	1.1V	25.9V	Q440	0V	26.5V	0V	Q804	0V	0V	0.6V
Q420	26.3V	1.1V	25.9V	Q441	0V	26.5V	0V	Q901	14.4V	14.3V	13.5V
Q421	-26.2V	-1.1V	-25.6V	Q442	0V	26.5V	0V	Q902	0V	0V	2.6V

	1	2	3	4	5	6	7
Q401	26V	0V	0V	NC	0V	0V	26V
Q402	26V	0V	0V	NC	0V	0V	26V
Q403	26V	0V	0V	NC	0V	0V	26V
Q404	26V	0V	0V	NC	0V	0V	26V

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

Electrical Parts List

Capacitor : μ F=microfarads,pF=picofarads

Abbreviations

RES.= Resistor	CAP.= Capacitor
C.F.= Carbon Film	ELY.= Electrolytic
M.F.= Metal Film	CER.= Ceramic
M.O.= Metal Oxide Film	MYL.= Mylar
M.P.= Metal Plate	TAN.= Tantalum
TR. = Transistor	POLY.= Polystyrol
TRANS.= Transformer	PP. = Polypropylene
CP. = Chip	PLT.= Polyethylene
	PF. = Polyester Film

Symbol No.	Part No.	Description
Main P.W.Board		
IC's		
IC101	51E22130S01	IC,NJM 4560M-TE3
IC102	51E22130S01	IC,NJM 4560M-TE3
IC103	51E22130S01	IC,NJM 4560M-TE3
IC104	51E22130S01	IC,NJM 4560M-TE3
IC105	51E22130S01	IC,NJM 4560M-TE3
IC106	51E22130S01	IC,NJM 4560M-TE3
IC107	51E22130S01	IC,NJM 4560M-TE3
IC108	51E22130S01	IC,NJM 4560M-TE3
IC109	51E22130S01	IC,NJM 4560M-TE3
IC201	51E22130S01	IC,NJM 4560M-TE3
IC202	51E22130S01	IC,NJM 4560M-TE3
IC203	51E22130S01	IC,NJM 4560M-TE3
IC204	51E22130S01	IC,NJM 4560M-TE3
IC205	51E22130S01	IC,NJM 4560M-TE3
IC206	51E22130S01	IC,NJM 4560M-TE3
IC207	51E22130S01	IC,NJM 4560M-TE3
IC208	51E22130S01	IC,NJM 4560M-TE3
IC301	51E22130S01	IC,NJM 4560M-TE3
IC302	51E22130S01	IC,NJM 4560M-TE3
IC601	51E27890S01	IC,μPC 494GS
Transistors		
Q301	48E08335S01	TR,KTC 2878-B-RD
Q302	48E08335S01	TR,KTC 2878-B-RD
Q303	48E08335S01	TR,KTC 2878-B-RD
Q304	48E08335S01	TR,KTC 2878-B-RD
Q401	48T61719F01	FET TKR 2SK 389BL
Q402	48T61719F01	FET TKR 2SK 389BL
Q403	48T61719F01	FET TKR 2SK 389BL
Q404	48T61719F01	FET TKR 2SK 389BL
Q405	48E09036S02	TR,KTA 1266-Y-RD
Q406	48E09036S02	TR,KTA 1266-Y-RD
Q407	48E09036S02	TR,KTA 1266-Y-RD

Symbol No.	Part No.	Description
Q408	48E09036S02	TR,KTA 1266-Y-RD
Q409	48E09088S01	TR,KTC 3198-Y-RD
Q410	48E09088S01	TR,KTC 3198-Y-RD
Q411	48E09088S01	TR,KTC 3198-Y-RD
Q412	48E09088S01	TR,KTC 3198-Y-RD
Q413	48E09036S02	TR,KTA 1266-Y-RD
Q414	48E09036S02	TR,KTA 1266-Y-RD
Q415	48E09036S02	TR,KTA 1266-Y-RD
Q416	48E09036S02	TR,KTA 1266-Y-RD
Q417	48E09036S02	TR,KTA 1266-Y-RD
Q418	48E09036S02	TR,KTA 1266-Y-RD
Q419	48E09036S02	TR,KTA 1266-Y-RD
Q420	48E09036S02	TR,KTA 1266-Y-RD
Q421	48E09088S01	TR,KTC 3198-Y-RD
Q422	48E09088S01	TR,KTC 3198-Y-RD
Q423	48E09088S01	TR,KTC 3198-Y-RD
Q424	48E09088S01	TR,KTC 3198-Y-RD
Q425	48E08329S01	TR,KSC 2682-Y
Q426	48E08329S01	TR,KSC 2682-Y
Q427	48E08329S01	TR,KSC 2682-Y
Q428	48E08329S01	TR,KSC 2682-Y
Q429	48E10027S01	TR,KSC 2690A-Y
Q430	48E10027S01	TR,KSC 2690A-Y
Q431	48E10027S01	TR,KSC 2690A-Y
Q432	48E10027S01	TR,KSC 2690A-Y
Q433	48E05943S01	TR,KSA 1220A-Y
Q434	48E05943S01	TR,KSA 1220A-Y
Q435	48E05943S01	TR,KSA 1220A-Y
Q436	48E05943S01	TR,KSA 1220A-Y
Q437	48E22902S01	TR,2SC2412K-Q,R,S-CP
Q438	48E22902S01	TR,2SC2412K-Q,R,S-CP
Q439	48E22902S01	TR,2SC2412K-Q,R,S-CP
Q440	48E22902S01	TR,2SC2412K-Q,R,S-CP
Q441	48E27748S01	TR,KTD 718-O
Q442	48E27748S01	TR,KTD 718-O
Q443	48E27748S01	TR,KTD 718-O
Q444	48E27748S01	TR,KTD 718-O
Q445	48E27747S01	TR,KTB 688-O
Q446	48E27747S01	TR,KTB 688-O
Q447	48E27747S01	TR,KTB 688-O
Q448	48E27747S01	TR,KTB 688-O
Q501	48E29536S01	FET,IRFZ 44N
Q502	48E29536S01	FET,IRFZ 44N
Q503	48E29536S01	FET,IRFZ 44N
Q504	48E29536S01	FET,IRFZ 44N
Q505	48E10027S01	TR,KSC 2690A-Y

Symbol No.	Part No.	Description
Q506	48E05943S01	TR, KSA 1220A-Y
Q601	48E09088S01	TR, KTC 3198-Y-RD
Q701	48E22902S01	TR, 2SC2412K-Q, R, S-CP
Q702	48E22900S01	TR, 2SA1037K-Q. R. S-CP
Q703	48E22902S01	TR, 2SC2412K-Q, R, S-CP
Q704	48E22900S01	TR, 2SA1037K-Q. R. S-CP
Q705	48E22902S01	TR, 2SC2412K-Q, R, S-CP
Q706	48E22900S01	TR, 2SA1037K-Q. R. S-CP
Q801	48E22900S01	TR, 2SA1037K-Q. R. S-CP
Q802	48E23697S01	TR, DTA 144EK-T146-CP
Q803	48E22555S01	TR, DTC 144EK-T146-CP
Q804	48E22902S01	TR, 2SC2412K-Q, R, S-CP
Q901	48E09036S02	TR, KTA 1266-Y-RD
Q902	48E22903S01	TR, DTC 143EK-T-146-CP
Diodes		
D401	48E22916S01	DIO, 1SS133-T-77-AX
D402	48E22916S01	DIO, 1SS133-T-77-AX
D403	48E22916S01	DIO, 1SS133-T-77-AX
D404	48E22916S01	DIO, 1SS133-T-77-AX
D405	48E22916S01	DIO, 1SS133-T-77-AX
D406	48E22916S01	DIO, 1SS133-T-77-AX
D407	48E22916S01	DIO, 1SS133-T-77-AX
D408	48E22916S01	DIO, 1SS133-T-77-AX
D501	48T65059W01	DIO, REC F10P20F
D502	48T65059W02	DIO, REC F10P20FR
D701	48E22916S01	DIO, 1SS133-T-77-AX
D702	48E22916S01	DIO, 1SS133-T-77-AX
D801	48E23703S01	DIO, IN 4003-AX
D802	48E22916S01	DIO, 1SS133-T-77-AX
D803	48E22916S01	DIO, 1SS133-T-77-AX
D804	48E22916S01	DIO, 1SS133-T-77-AX
D805	48E23703S01	DIO, IN 4003-AX
D901	48E23703S01	DIO, IN 4003-AX
ZD501	48E22436S01	DIO, ZEN, MTZ-J-16-B-AX
ZD502	48E22436S01	DIO, ZEN, MTZ-J-16-B-AX
ZD601	48E22162S01	DIO, ZEN, MTZ-J-9.1-B-AX
ZD602	48E08332S01	DIO, ZEN, MTZ-J-22-B-AX
ZD701	48E08332S01	DIO, ZEN, MTZ-J-22-B-AX
ZD801	48E22917S01	DIO, ZEN, MTZ-J-6.8-A-AX
Switches		
SW101	40E20895S01	SSAF 123NA(INPUT CHANNEL)
SW201	40E20895S01	SSAF 123NA(FILTER)
SW202	40E20895S01	SSAF 123NA(FILTER)
SW301	40E20895S01	SSAF 123NA(INPUT MODE)

Symbol No.	Part No.	Description
SW302	40E20895S01	SSAF 123NA(INPUT MODE)
Coils		
L501	25E20892S01	CHOKE COIL(38 μH)
L502	25E20892S01	CHOKE COIL(38 μH)
L901	24E29518S01	CHOKE COIL(100 μH)
Transformer		
T501	25E30971S01	ASSY, POWER TRANS
T902	25E29538S01	CHOKE, TRANS 35m/m
Thermistors		
TH601	48E20887S01	TH, YTD5-320(20K)-YEL
TH701	48E20887S01	TH, YTD5-320(20K)-YEL
Photo Coupler		
PT601	48E25501S01	PS2501-1(L)
Capacitors		
C101	08E08423S07	CAP, CER. 221-J-CP 50V
C102	08E23583S01	CAP, CER. 102-K-CP 50V
C103	08E08423S07	CAP, CER. 221-J-CP 50V
C104	08E23583S01	CAP, CER. 102-K-CP 50V
C105	08E08423S07	CAP, CER. 221-J-CP 50V
C106	08E23583S01	CAP, CER. 102-K-CP 50V
C107	08E08423S07	CAP, CER. 221-J-CP 50V
C108	08E23583S01	CAP, CER. 102-K-CP 50V
C109	08E08423S03	CAP, CER. 100-D-CP 50V
C110	08E08423S03	CAP, CER. 100-D-CP 50V
C111	08E08423S03	CAP, CER. 100-D-CP 50V
C112	08E08423S03	CAP, CER. 100-D-CP 50V
C113	08E23581S01	CAP, CER. 330-J-CP 50V
C114	08E23581S01	CAP, CER. 330-J-CP 50V
C115	08E23581S01	CAP, CER. 330-J-CP 50V
C116	08E23581S01	CAP, CER. 330-J-CP 50V
C117	08E23581S01	CAP, CER. 330-J-CP 50V
C118	08E23581S01	CAP, CER. 330-J-CP 50V
C119	08E23581S01	CAP, CER. 330-J-CP 50V
C120	08E23581S01	CAP, CER. 330-J-CP 50V

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Symbol No.	Part No.	Description
C121	08E08423S03	CAP, CER. 100-D-CP 50V
C122	08E08423S03	CAP, CER. 100-D-CP 50V
C123	08E08423S03	CAP, CER. 100-D-CP 50V
C124	08E08423S03	CAP, CER. 100-D-CP 50V
C125	08E08423S03	CAP, CER. 100-D-CP 50V
C126	08E08423S03	CAP, CER. 100-D-CP 50V
C127	08E08423S03	CAP, CER. 100-D-CP 50V
C128	08E08423S03	CAP, CER. 100-D-CP 50V
C129	08E23581S01	CAP, CER. 330-J-CP 50V
C130	08E23581S01	CAP, CER. 330-J-CP 50V
C131	08E23581S01	CAP, CER. 330-J-CP 50V
C132	08E23581S01	CAP, CER. 330-J-CP 50V
C133	08E08423S03	CAP, CER. 100-D-CP 50V
C134	08E08423S03	CAP, CER. 100-D-CP 50V
C135	08E08423S03	CAP, CER. 100-D-CP 50V
C136	08E08423S03	CAP, CER. 100-D-CP 50V
C137	08E23581S01	CAP, CER. 330-J-CP 50V
C138	08E23581S01	CAP, CER. 330-J-CP 50V
C201	08E22899S01	CAP, CER. 101-J-CP 50V
C202	08E22899S01	CAP, CER. 101-J-CP 50V
C203	08E22899S01	CAP, CER. 101-J-CP 50V
C204	08E22899S01	CAP, CER. 101-J-CP 50V
C205	08E08423S03	CAP, CER. 100-D-CP 50V
C206	08E08423S03	CAP, CER. 100-D-CP 50V
C207	08E08423S03	CAP, CER. 100-D-CP 50V
C208	08E08423S03	CAP, CER. 100-D-CP 50V
C209	08E31021S01	CAP, MF 154-J-63V-RD
C210	08E31021S01	CAP, MF 154-J-63V-RD
C211	08E31021S01	CAP, MF 154-J-63V-RD
C212	08E31021S01	CAP, MF 154-J-63V-RD
C213	08E31021S01	CAP, MF 154-J-63V-RD
C214	08E31021S01	CAP, MF 154-J-63V-RD
C215	08E31021S01	CAP, MF 154-J-63V-RD
C216	08E31021S01	CAP, MF 154-J-63V-RD
C301	08E08423S03	CAP, CER. 100-D-CP 50V
C302	08E08423S03	CAP, CER. 100-D-CP 50V
C303	08E08423S03	CAP, CER. 100-D-CP 50V
C304	08E08423S03	CAP, CER. 100-D-CP 50V
C401	08E26128S01	CAP, CER. 271-J-CP 50V
C402	08E26128S01	CAP, CER. 271-J-CP 50V
C403	08E26128S01	CAP, CER. 271-J-CP 50V
C404	08E26128S01	CAP, CER. 271-J-CP 50V
C405	08E23583S01	CAP, CER. 102-K-CP 50V
C406	08E23583S01	CAP, CER. 102-K-CP 50V
C407	08E23583S01	CAP, CER. 102-K-CP 50V
C408	08E23583S01	CAP, CER. 102-K-CP 50V
C409	08E22077S01	CAP, CER. 470-J-CP 50V
C410	08E22077S01	CAP, CER. 470-J-CP 50V
C411	08E22077S01	CAP, CER. 470-J-CP 50V

Symbol No.	Part No.	Description
C412	08E22077S01	CAP, CER. 470-J-CP 50V
C413	08E08423S03	CAP, CER. 100-D-CP 50V
C414	08E08423S03	CAP, CER. 100-D-CP 50V
C415	08E08423S03	CAP, CER. 100-D-CP 50V
C416	08E08423S03	CAP, CER. 100-D-CP 50V
C417	08E20216S01	CAP, MYL. 103-J-RD
C418	08E20216S01	CAP, MYL. 103-J-RD
C419	08E20216S01	CAP, MYL. 103-J-RD
C420	08E20216S01	CAP, MYL. 103-J-RD
C421	08E22549S01	CAP, CER. 680-J-CP 50V
C422	08E22549S01	CAP, CER. 680-J-CP 50V
C423	08E22549S01	CAP, CER. 680-J-CP 50V
C424	08E22549S01	CAP, CER. 680-J-CP 50V
C425	08E22549S01	CAP, CER. 680-J-CP 50V
C426	08E22549S01	CAP, CER. 680-J-CP 50V
C427	08E22549S01	CAP, CER. 680-J-CP 50V
C428	08E22549S01	CAP, CER. 680-J-CP 50V
C429	08E07631S18	CAP, MYL. 473-J-RD
C430	08E07631S18	CAP, MYL. 473-J-RD
C431	08E07631S18	CAP, MYL. 473-J-RD
C432	08E07631S18	CAP, MYL. 473-J-RD
C501	08E07631S10	CAP, MYL. 223-J-RD
C502	08E07631S10	CAP, MYL. 223-J-RD
C503	08E07631S18	CAP, MYL. 473-J-RD
C504	08E07631S18	CAP, MYL. 473-J-RD
C505	08E20913S01	CAP, MYL. 563-J-RD
C506	08E20913S01	CAP, MYL. 563-J-RD
C601	08E31020S01	CAP, MF 104-J-63V-RD
C602	08E31020S01	CAP, MF 104-J-63V-RD
C603	08E25318S01	CAP, TF. AMCS 152-J-RD
C701	08E23583S01	CAP, CER. 102-K-CP 50V
C901	08E31021S01	CAP, MF 154-J-63V-RD
C902	08E23583S01	CAP, CER. 102-K-CP 50V
C904	08E31020S01	CAP, MF 104-J-63V-RD
E101	23E31015S01	CAP, ELEC. 10/50-M-RD
E102	23E31015S01	CAP, ELEC. 10/50-M-RD
E103	23E31015S01	CAP, ELEC. 10/50-M-RD
E104	23E31015S01	CAP, ELEC. 10/50-M-RD
E105	23E31015S01	CAP, ELEC. 10/50-M-RD
E106	23E31015S01	CAP, ELEC. 10/50-M-RD
E107	23E31015S01	CAP, ELEC. 10/50-M-RD
E108	23E31015S01	CAP, ELEC. 10/50-M-RD
E111	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E112	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E113	23E31017S01	CAP, ELEC. 10/25-M-RD
E114	23E31017S01	CAP, ELEC. 10/25-M-RD
E115	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E116	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E117	23E31014S01	CAP, ELEC. 4.7/50-M-RD

Symbol No.	Part No.	Description
E118	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E119	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E120	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E121	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E122	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E123	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E124	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E125	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E126	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E201	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E202	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E203	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E204	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E301	23E31018S01	CAP, ELEC. 22/16-M-RD
E302	23E31018S01	CAP, ELEC. 22/16-M-RD
E303	23E31018S01	CAP, ELEC. 22/16-M-RD
E304	23E31018S01	CAP, ELEC. 22/16-M-RD
E305	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E306	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E307	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E308	23E31014S01	CAP, ELEC. 4.7/50-M-RD
E309	23E31018S01	CAP, ELEC. 22/16-M-RD
E310	23E31018S01	CAP, ELEC. 22/16-M-RD
E311	23E31018S01	CAP, ELEC. 22/16-M-RD
E312	23E31018S01	CAP, ELEC. 22/16-M-RD
E401	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E402	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E403	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E404	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E405	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E406	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E407	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E408	23E31011S01	CAP, ELEC. 0.47/50-M-RD
E409	23E23848S01	CAP, ELEC. 220/10-M-RD
E410	23E23848S01	CAP, ELEC. 220/10-M-RD
E411	23E23848S01	CAP, ELEC. 220/10-M-RD
E412	23E23848S01	CAP, ELEC. 220/10-M-RD
E413	23E31016S01	CAP, ELEC. 22/50-M-RD
E414	23E31016S01	CAP, ELEC. 22/50-M-RD
E415	23E31016S01	CAP, ELEC. 22/50-M-RD
E416	23E31016S01	CAP, ELEC. 22/50-M-RD
E501	23T75491W14	CAP, PS 332-1C
E502	23T75491W14	CAP, PS 332-1C
E503	23E20911S01	CAP, ELEC. 470/35-M-RD
E504	23E20911S01	CAP, ELEC. 470/35-M-RD
E505	23T15345Y02	CAP, ALP 682-1V
E506	23T15345Y02	CAP, ALP 682-1V
E507	23E31016S01	CAP, ELEC. 22/50-M-RD
E508	23E31016S01	CAP, ELEC. 22/50-M-RD

Symbol No.	Part No.	Description
E509	23E23850S01	CAP, ELEC. 220/16-M-RD
E510	23E23850S01	CAP, ELEC. 220/16-M-RD
E511	23E27783S01	CAP, ELEC. 330/35-M-RD
E512	23E27783S01	CAP, ELEC. 330/35-M-RD
E601	23E31017S01	CAP, ELEC. 10/25-M-RD
E602	23E31017S01	CAP, ELEC. 10/25-M-RD
E603	23E31019S01	CAP, ELEC. 100/10-M-RD
E604	23E23849S01	CAP, ELEC. 100/16-M-RD
E701	23E11142S01	CAP, ELEC. 100/10-M-BP-RD
E702	23E31012S01	CAP, ELEC. 2.2/50-M-RD
E703	23E31019S01	CAP, ELEC. 100/10-M-RD
E704	23E23848S01	CAP, ELEC. 220/10-M-RD
E801	23E31017S01	CAP, ELEC. 10/25-M-RD
E802	23E31017S01	CAP, ELEC. 10/25-M-RD
E803	23E31017S01	CAP, ELEC. 10/25-M-RD
E901	23E31013S01	CAP, ELEC. 3.3/50-M-RD

Resistors

J101	06E22039S01	RES, CF. 0R0-J-1/8-CP
J102	06E22039S01	RES, CF. 0R0-J-1/8-CP
J103	06E22039S01	RES, CF. 0R0-J-1/8-CP
J104	06E22039S01	RES, CF. 0R0-J-1/8-CP
J105	06E22039S01	RES, CF. 0R0-J-1/8-CP
J106	06E22039S01	RES, CF. 0R0-J-1/8-CP
J107	06E22039S01	RES, CF. 0R0-J-1/8-CP
J108	06E22039S01	RES, CF. 0R0-J-1/8-CP
J109	06E22039S01	RES, CF. 0R0-J-1/8-CP
J110	06E22039S01	RES, CF. 0R0-J-1/8-CP
J111	06E22039S01	RES, CF. 0R0-J-1/8-CP
J112	06E22039S01	RES, CF. 0R0-J-1/8-CP
J113	06E22039S01	RES, CF. 0R0-J-1/8-CP
J114	06E22039S01	RES, CF. 0R0-J-1/8-CP
J115	06E22039S01	RES, CF. 0R0-J-1/8-CP
J116	06E22039S01	RES, CF. 0R0-J-1/8-CP
J117	06E22039S01	RES, CF. 0R0-J-1/8-CP
J118	06E22039S01	RES, CF. 0R0-J-1/8-CP
J119	06E22039S01	RES, CF. 0R0-J-1/8-CP
J120	06E22039S01	RES, CF. 0R0-J-1/8-CP
J121	06E22039S01	RES, CF. 0R0-J-1/8-CP
J122	06E22039S01	RES, CF. 0R0-J-1/8-CP
J123	06E22039S01	RES, CF. 0R0-J-1/8-CP
J124	06E22039S01	RES, CF. 0R0-J-1/8-CP
J125	06E22039S01	RES, CF. 0R0-J-1/8-CP
J126	06E22039S01	RES, CF. 0R0-J-1/8-CP
J127	06E22039S01	RES, CF. 0R0-J-1/8-CP
J128	06E22039S01	RES, CF. 0R0-J-1/8-CP
J129	06E22039S01	RES, CF. 0R0-J-1/8-CP

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Symbol No.	Part No.	Description
J130	06E22039S01	RES, CF. 0R0-J-1/8-CP
J131	06E22039S01	RES, CF. 0R0-J-1/8-CP
J132	06E22039S01	RES, CF. 0R0-J-1/8-CP
J133	06E22039S01	RES, CF. 0R0-J-1/8-CP
J134	06E22039S01	RES, CF. 0R0-J-1/8-CP
J135	06E22039S01	RES, CF. 0R0-J-1/8-CP
J136	06E22039S01	RES, CF. 0R0-J-1/8-CP
J137	06E22039S01	RES, CF. 0R0-J-1/8-CP
J138	06E22039S01	RES, CF. 0R0-J-1/8-CP
J139	06E22039S01	RES, CF. 0R0-J-1/8-CP
J140	06E22039S01	RES, CF. 0R0-J-1/8-CP
J141	06E22039S01	RES, CF. 0R0-J-1/8-CP
J142	06E22039S01	RES, CF. 0R0-J-1/8-CP
J143	06E22039S01	RES, CF. 0R0-J-1/8-CP
J144	06E22039S01	RES, CF. 0R0-J-1/8-CP
J145	06E22039S01	RES, CF. 0R0-J-1/8-CP
J146	06E22039S01	RES, CF. 0R0-J-1/8-CP
J147	06E22039S01	RES, CF. 0R0-J-1/8-CP
J148	06E22039S01	RES, CF. 0R0-J-1/8-CP
J149	06E22039S01	RES, CF. 0R0-J-1/8-CP
J201	06E20905S01	RES, CF. 0R0-J-1/10-CP
J202	06E20905S01	RES, CF. 0R0-J-1/10-CP
J203	06E20905S01	RES, CF. 0R0-J-1/10-CP
J204	06E20905S01	RES, CF. 0R0-J-1/10-CP
R101	06E22429S01	RES, WW. 15-J-5W
R102	06E22429S01	RES, WW. 15-J-5W
R103	06E22429S01	RES, WW. 15-J-5W
R104	06E22429S01	RES, WW. 15-J-5W
R105	06E22112S01	RES, CF. 113-J-1/10-CP
R106	06E22112S01	RES, CF. 113-J-1/10-CP
R107	06E22112S01	RES, CF. 113-J-1/10-CP
R108	06E22112S01	RES, CF. 113-J-1/10-CP
R109	06E22112S01	RES, CF. 113-J-1/10-CP
R110	06E22112S01	RES, CF. 113-J-1/10-CP
R111	06E22112S01	RES, CF. 113-J-1/10-CP
R112	06E22112S01	RES, CF. 113-J-1/10-CP
R113	06E31035S01	RES, CF. 223-J-1/4-AX
R114	06E31035S01	RES, CF. 223-J-1/4-AX
R115	06E31035S01	RES, CF. 223-J-1/4-AX
R116	06E31035S01	RES, CF. 223-J-1/4-AX
R117	06E29366S01	RES, CF. 102-J-1/4-AX
R118	06E29366S01	RES, CF. 102-J-1/4-AX
R119	06E29366S01	RES, CF. 102-J-1/4-AX
R120	06E29366S01	RES, CF. 102-J-1/4-AX
R121	06E31028S01	RES, CF. 122-J-1/4-AX
R122	06E31028S01	RES, CF. 122-J-1/4-AX
R123	06E31028S01	RES, CF. 122-J-1/4-AX
R124	06E31028S01	RES, CF. 122-J-1/4-AX
R125	06E31041S01	RES, CF. 224-J-1/4-AX

Symbol No.	Part No.	Description
R126	06E31041S01	RES, CF. 224-J-1/4-AX
R127	06E31041S01	RES, CF. 224-J-1/4-AX
R128	06E31041S01	RES, CF. 224-J-1/4-AX
R129	06E31041S01	RES, CF. 224-J-1/4-AX
R130	06E31041S01	RES, CF. 224-J-1/4-AX
R131	06E31041S01	RES, CF. 224-J-1/4-AX
R132	06E31041S01	RES, CF. 224-J-1/4-AX
R133	06E31026S01	RES, CF. 751-J-1/4-AX
R134	06E31026S01	RES, CF. 751-J-1/4-AX
R135	06E31026S01	RES, CF. 751-J-1/4-AX
R136	06E31026S01	RES, CF. 751-J-1/4-AX
R137	06E31026S01	RES, CF. 751-J-1/4-AX
R138	06E31026S01	RES, CF. 751-J-1/4-AX
R139	06E31026S01	RES, CF. 751-J-1/4-AX
R140	06E31026S01	RES, CF. 751-J-1/4-AX
R141	06E20205S01	RES, CF. 15K-F-1/8-AX
R142	06E20205S01	RES, CF. 15K-F-1/8-AX
R143	06E20205S01	RES, CF. 15K-F-1/8-AX
R144	06E20205S01	RES, CF. 15K-F-1/8-AX
R145	06E20205S01	RES, CF. 15K-F-1/8-AX
R146	06E20205S01	RES, CF. 15K-F-1/8-AX
R147	06E20205S01	RES, CF. 15K-F-1/8-AX
R148	06E20205S01	RES, CF. 15K-F-1/8-AX
R149	06E20205S01	RES, CF. 15K-F-1/8-AX
R150	06E20205S01	RES, CF. 15K-F-1/8-AX
R151	06E20205S01	RES, CF. 15K-F-1/8-AX
R152	06E20205S01	RES, CF. 15K-F-1/8-AX
R153	06E20205S01	RES, CF. 15K-F-1/8-AX
R154	06E20205S01	RES, CF. 15K-F-1/8-AX
R155	06E20205S01	RES, CF. 15K-F-1/8-AX
R156	06E20205S01	RES, CF. 15K-F-1/8-AX
R157	06E29366S01	RES, CF. 102-J-1/4-AX
R158	06E29366S01	RES, CF. 102-J-1/4-AX
R159	06E29366S01	RES, CF. 102-J-1/4-AX
R160	06E29366S01	RES, CF. 102-J-1/4-AX
R161	06E31035S01	RES, CF. 223-J-1/4-AX
R162	06E31035S01	RES, CF. 223-J-1/4-AX
R163	06E31035S01	RES, CF. 223-J-1/4-AX
R164	06E31035S01	RES, CF. 223-J-1/4-AX
R165	06E31029S01	RES, CF. 152-J-1/4-AX
R166	06E31029S01	RES, CF. 152-J-1/4-AX
R167	06E31029S01	RES, CF. 152-J-1/4-AX
R168	06E31029S01	RES, CF. 152-J-1/4-AX
R169	06E31027S01	RES, CF. 911-J-1/4-AX
R170	06E31027S01	RES, CF. 911-J-1/4-AX
R171	06E31027S01	RES, CF. 911-J-1/4-AX
R172	06E31027S01	RES, CF. 911-J-1/4-AX
R173	06E31035S01	RES, CF. 223-J-1/4-AX
R174	06E31035S01	RES, CF. 223-J-1/4-AX

Symbol No.	Part No.	Description
R175	06E31022S01	RES, CF. 101-J-1/4-AX
R176	06E31022S01	RES, CF. 101-J-1/4-AX
R177	06E31037S01	RES, CF. 273-J-1/4-AX
R178	06E31037S01	RES, CF. 273-J-1/4-AX
R179	06E31026S01	RES, CF. 751-J-1/4-AX
R180	06E31026S01	RES, CF. 751-J-1/4-AX
R181	06E31042S01	RES, CF. 105-J-1/4-AX
R182	06E31042S01	RES, CF. 105-J-1/4-AX
R183	06E31033S01	RES, CF. 103-J-1/4-AX
R184	06E31033S01	RES, CF. 103-J-1/4-AX
R185	06E31033S01	RES, CF. 103-J-1/4-AX
R186	06E31033S01	RES, CF. 103-J-1/4-AX
R201	06E22065S01	RES, CF. 104-J-1/10-CP
R202	06E22065S01	RES, CF. 104-J-1/10-CP
R203	06E22065S01	RES, CF. 104-J-1/10-CP
R204	06E22065S01	RES, CF. 104-J-1/10-CP
R205	06E23686S01	RES, CF. 123-J-1/8-CP
R206	06E22058S01	RES, CF. 123-J-1/10-CP
R207	06E22058S01	RES, CF. 123-J-1/10-CP
R208	06E22058S01	RES, CF. 123-J-1/10-CP
R209	06E22508S01	RES, CF. 203-J-1/10-CP
R210	06E22508S01	RES, CF. 203-J-1/10-CP
R211	06E22508S01	RES, CF. 203-J-1/10-CP
R212	06E22508S01	RES, CF. 203-J-1/10-CP
R213	06E22058S01	RES, CF. 123-J-1/10-CP
R214	06E22058S01	RES, CF. 123-J-1/10-CP
R215	06E22058S01	RES, CF. 123-J-1/10-CP
R216	06E22058S01	RES, CF. 123-J-1/10-CP
R217	06E23686S01	RES, CF. 123-J-1/8-CP
R218	06E23686S01	RES, CF. 123-J-1/8-CP
R219	06E22058S01	RES, CF. 123-J-1/10-CP
R220	06E22058S01	RES, CF. 123-J-1/10-CP
R221	06E27736S01	RES, CF. 752-J-1/8-CP
R222	06E22926S01	RES, CF. 752-J-1/10-CP
R223	06E27736S01	RES, CF. 752-J-1/8-CP
R224	06E22926S01	RES, CF. 752-J-1/10-CP
R225	06E26014S01	RES, CF. 103-J-1/8-CP
R226	06E20903S01	RES, CF. 103-J-1/10-CP
R227	06E20903S01	RES, CF. 103-J-1/10-CP
R228	06E20903S01	RES, CF. 103-J-1/10-CP
R229	06E20903S01	RES, CF. 103-J-1/10-CP
R230	06E20903S01	RES, CF. 103-J-1/10-CP
R231	06E20903S01	RES, CF. 103-J-1/10-CP
R232	06E20903S01	RES, CF. 103-J-1/10-CP
R233	06E20904S01	RES, CF. 273-J-1/10-CP
R234	06E23594S01	RES, CF. 273-J-1/8-CP
R235	06E20904S01	RES, CF. 273-J-1/10-CP
R236	06E20904S01	RES, CF. 273-J-1/10-CP
R237	06E29209S01	RES, CF. 512-J-1/8-CP

Symbol No.	Part No.	Description
R238	06E29209S01	RES, CF. 512-J-1/8-CP
R239	06E22952S01	RES, CF. 512-J-1/10-CP
R240	06E29209S01	RES, CF. 512-J-1/8-CP
R241	06E29209S01	RES, CF. 512-J-1/8-CP
R242	06E29209S01	RES, CF. 512-J-1/8-CP
R243	06E29209S01	RES, CF. 512-J-1/8-CP
R244	06E29209S01	RES, CF. 512-J-1/8-CP
R301	06E29345S01	RES, CF. 221-J-1/4-AX
R302	06E29345S01	RES, CF. 221-J-1/4-AX
R303	06E29345S01	RES, CF. 221-J-1/4-AX
R304	06E29345S01	RES, CF. 221-J-1/4-AX
R305	06E31033S01	RES, CF. 103-J-1/4-AX
R306	06E31033S01	RES, CF. 103-J-1/4-AX
R307	06E31033S01	RES, CF. 103-J-1/4-AX
R308	06E31033S01	RES, CF. 103-J-1/4-AX
R309	06E31026S01	RES, CF. 751-J-1/4-AX
R310	06E31033S01	RES, CF. 103-J-1/4-AX
R311	06E31026S01	RES, CF. 751-J-1/4-AX
R312	06E31033S01	RES, CF. 103-J-1/4-AX
R313	06E31037S01	RES, CF. 273-J-1/4-AX
R314	06E31037S01	RES, CF. 273-J-1/4-AX
R315	06E31037S01	RES, CF. 273-J-1/4-AX
R316	06E31037S01	RES, CF. 273-J-1/4-AX
R317	06E31033S01	RES, CF. 103-J-1/4-AX
R318	06E31033S01	RES, CF. 103-J-1/4-AX
R319	06E31033S01	RES, CF. 103-J-1/4-AX
R320	06E31033S01	RES, CF. 103-J-1/4-AX
R321	06E31031S01	RES, CF. 242-J-1/4-AX
R322	06E31031S01	RES, CF. 242-J-1/4-AX
R323	06E31031S01	RES, CF. 242-J-1/4-AX
R324	06E31031S01	RES, CF. 242-J-1/4-AX
R401	06E29366S01	RES, CF. 102-J-1/4-AX
R402	06E29366S01	RES, CF. 102-J-1/4-AX
R403	06E29366S01	RES, CF. 102-J-1/4-AX
R404	06E29366S01	RES, CF. 102-J-1/4-AX
R405	06E31032S01	RES, CF. 562-J-1/4-AX
R406	06E31032S01	RES, CF. 562-J-1/4-AX
R407	06E31032S01	RES, CF. 562-J-1/4-AX
R408	06E31032S01	RES, CF. 562-J-1/4-AX
R409	06E31039S01	RES, CF. 563-J-1/4-AX
R410	06E31039S01	RES, CF. 563-J-1/4-AX
R411	06E31039S01	RES, CF. 563-J-1/4-AX
R412	06E31039S01	RES, CF. 563-J-1/4-AX
R413	06E31023S01	RES, CF. 121-J-1/4-AX
R414	06E31023S01	RES, CF. 121-J-1/4-AX
R415	06E31023S01	RES, CF. 121-J-1/4-AX
R416	06E31023S01	RES, CF. 121-J-1/4-AX
R417	06E31025S01	RES, CF. 471-J-1/4-AX
R418	06E31025S01	RES, CF. 471-J-1/4-AX

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Symbol No.	Part No.	Description
R419	06E31025S01	RES, CF. 471-J-1/4-AX
R420	06E31025S01	RES, CF. 471-J-1/4-AX
R421	06E29345S01	RES, CF. 221-J-1/4-AX
R422	06E29345S01	RES, CF. 221-J-1/4-AX
R423	06E29345S01	RES, CF. 221-J-1/4-AX
R424	06E29345S01	RES, CF. 221-J-1/4-AX
R425	06E31023S01	RES, CF. 121-J-1/4-AX
R426	06E31023S01	RES, CF. 121-J-1/4-AX
R427	06E31023S01	RES, CF. 121-J-1/4-AX
R428	06E31023S01	RES, CF. 121-J-1/4-AX
R429	06E31024S01	RES, CF. 331-J-1/4-AX
R430	06E31024S01	RES, CF. 331-J-1/4-AX
R431	06E31024S01	RES, CF. 331-J-1/4-AX
R432	06E31024S01	RES, CF. 331-J-1/4-AX
R433	06E30145S01	RES, CF. 33R-J-1/4-AX
R434	06E30145S01	RES, CF. 33R-J-1/4-AX
R435	06E30145S01	RES, CF. 33R-J-1/4-AX
R436	06E30145S01	RES, CF. 33R-J-1/4-AX
R437	06E31032S01	RES, CF. 562-J-1/4-AX
R438	06E31032S01	RES, CF. 562-J-1/4-AX
R439	06E31032S01	RES, CF. 562-J-1/4-AX
R440	06E31032S01	RES, CF. 562-J-1/4-AX
R441	06E31038S01	RES, CF. 513-J-1/4-AX
R442	06E31038S01	RES, CF. 513-J-1/4-AX
R443	06E31038S01	RES, CF. 513-J-1/4-AX
R444	06E31038S01	RES, CF. 513-J-1/4-AX
R445	06E31023S01	RES, CF. 121-J-1/4-AX
R446	06E31023S01	RES, CF. 121-J-1/4-AX
R447	06E31023S01	RES, CF. 121-J-1/4-AX
R448	06E31023S01	RES, CF. 121-J-1/4-AX
R449	06E31030S01	RES, CF. 222-J-1/4-AX
R450	06E31030S01	RES, CF. 222-J-1/4-AX
R451	06E31030S01	RES, CF. 222-J-1/4-AX
R452	06E31030S01	RES, CF. 222-J-1/4-AX
R453	06E31036S01	RES, CF. 243-J-1/4-AX
R454	06E31036S01	RES, CF. 243-J-1/4-AX
R455	06E31036S01	RES, CF. 243-J-1/4-AX
R456	06E31036S01	RES, CF. 243-J-1/4-AX
R457	06E22111S01	RES, CF. 562-J-1/10-CP
R458	06E22111S01	RES, CF. 562-J-1/10-CP
R459	06E22111S01	RES, CF. 562-J-1/10-CP
R460	06E22111S01	RES, CF. 562-J-1/10-CP
R461	06E22924S01	RES, CF. 242-J-1/10-CP
R462	06E22924S01	RES, CF. 242-J-1/10-CP
R463	06E22924S01	RES, CF. 242-J-1/10-CP
R464	06E22924S01	RES, CF. 242-J-1/10-CP
R465	06E29344S01	RES, CF. 10R-J-1/4-AX
R466	06E29344S01	RES, CF. 10R-J-1/4-AX
R467	06E29344S01	RES, CF. 10R-J-1/4-AX

Symbol No.	Part No.	Description
R468	06E29344S01	RES, CF. 10R-J-1/4-AX
R469	06E29345S01	RES, CF. 221-J-1/4-AX
R470	06E29345S01	RES, CF. 221-J-1/4-AX
R471	06E29345S01	RES, CF. 221-J-1/4-AX
R472	06E29345S01	RES, CF. 221-J-1/4-AX
R473	06E29344S01	RES, CF. 10R-J-1/4-AX
R474	06E29344S01	RES, CF. 10R-J-1/4-AX
R475	06E29344S01	RES, CF. 10R-J-1/4-AX
R476	06E29344S01	RES, CF. 10R-J-1/4-AX
R477	06E22048S01	RES, CF. 102-J-1/10-CP
R478	06E22048S01	RES, CF. 102-J-1/10-CP
R479	06E22048S01	RES, CF. 102-J-1/10-CP
R480	06E22048S01	RES, CF. 102-J-1/10-CP
R481	06E22046S01	RES, CF. 681-J-1/10-CP
R482	06E22046S01	RES, CF. 681-J-1/10-CP
R483	06E22046S01	RES, CF. 681-J-1/10-CP
R484	06E22046S01	RES, CF. 681-J-1/10-CP
R485	06E22136S01	RES, MPR 5W 0.1X2
R486	06E22136S01	RES, MPR 5W 0.1X2
R487	06E22136S01	RES, MPR 5W 0.1X2
R488	06E22136S01	RES, MPR 5W 0.1X2
R489	06E22058S01	RES, CF. 123-J-1/10-CP
R490	06E22058S01	RES, CF. 123-J-1/10-CP
R491	06E31034S01	RES, CF. 123-J-1/4-AX
R492	06E22058S01	RES, CF. 123-J-1/10-CP
R493	06E20907S01	RES, MO, 1W ERG 1SJ 100E-RD
R494	06E20907S01	RES, MO, 1W ERG 1SJ 100E-RD
R495	06E20907S01	RES, MO, 1W ERG 1SJ 100E-RD
R496	06E20907S01	RES, MO, 1W ERG 1SJ 100E-RD
R501	06E22146S01	RES, MO, 1W ERG 1SJ 111E-RD
R502	06E22146S01	RES, MO, 1W ERG 1SJ 111E-RD
R503	06E29344S01	RES, CF. 10R-J-1/4-AX
R504	06E29344S01	RES, CF. 10R-J-1/4-AX
R505	06E29344S01	RES, CF. 10R-J-1/4-AX
R506	06E29344S01	RES, CF. 10R-J-1/4-AX
R507	06E20907S01	RES, MO, 1W ERG 1SJ 100E-RD
R508	06E20907S01	RES, MO, 1W ERG 1SJ 100E-RD
R509	06E29377S01	RES, CF. 272-J-1/4-AX
R510	06E29377S01	RES, CF. 272-J-1/4-AX
R601	06E20903S01	RES, CF. 103-J-1/10-CP
R602	06E22055S01	RES, CF. 472-J-1/10-CP
R603	06E23857S01	RES, CF. 511-J-1/10-CP
R604	06E29346S01	RES, CF. 822-J-1/4-AX
R605	06E22112S01	RES, CF. 113-J-1/10-CP
R606	06E22968S01	RES, CF. 242-J-1/8-CP
R607	06E22065S01	RES, CF. 104-J-1/10-CP
R608	06E24358S01	RES, CF. 623-J-1/10-CP
R609	06E20903S01	RES, CF. 103-J-1/10-CP
R610	06E22059S01	RES, CF. 183-J-1/10-CP

Symbol No.	Part No.	Description
R611	06E22040S01	RES, CF. 10R-J-1/10-CP
R701	06E22030S01	RES, CF. 102-J-1/8-CP
R702	06E22048S01	RES, CF. 102-J-1/10-CP
R703	06E22048S01	RES, CF. 102-J-1/10-CP
R704	06E22053S01	RES, CF. 332-J-1/10-CP
R705	06E22030S01	RES, CF. 102-J-1/8-CP
R706	06E22037S01	RES, CF. 104-J-1/8-CP
R707	06E22508S01	RES, CF. 203-J-1/10-CP
R708	06E22111S01	RES, CF. 562-J-1/10-CP
R709	06E23738S01	RES, CF. 203-J-1/8-CP
R710	06E22060S01	RES, CF. 223-J-1/10-CP
R711	06E25421S01	RES, CF. 151-J-1/8-CP
R712	06E20903S01	RES, CF. 103-J-1/10-CP
R713	06E20903S01	RES, CF. 103-J-1/10-CP
R714	06E23743S01	RES, CF. 244-J-1/10-CP
R715	06E22060S01	RES, CF. 223-J-1/10-CP
R716	06E23692S01	RES, CF. 514-J-1/10-CP
R717	06E20903S01	RES, CF. 103-J-1/10-CP
R718	06E20903S01	RES, CF. 103-J-1/10-CP
R719	06E20903S01	RES, CF. 103-J-1/10-CP
R720	06E20903S01	RES, CF. 103-J-1/10-CP
R801	06E22058S01	RES, CF. 123-J-1/10-CP
R802	06E22065S01	RES, CF. 104-J-1/10-CP
R803	06E22033S01	RES, CF. 472-J-1/8-CP
R804	06E22065S01	RES, CF. 104-J-1/10-CP
R805	06E23737S01	RES, CF. 202-J-1/8-CP
R806	06E22037S01	RES, CF. 104-J-1/8-CP
R807	06E22545S01	RES, CF. 202-J-1/10-CP
R808	06E22068S01	RES, CF. 105-J-1/10-CP
R809	06E23824S01	RES, CF. 684-J-1/8-CP
R812	06E22062S01	RES, CF. 473-J-1/10-CP
R813	06E31040S01	RES, CF. 104-J-1/4-AX
R814	06E22062S01	RES, CF. 473-J-1/10-CP
R901	06E20903S01	RES, CF. 103-J-1/10-CP
R902	06E22506S01	RES, CF. 362-J-1/10-CP
R903	06E22509S01	RES, CF. 154-J-1/10-CP
R904	06E24140S01	RES, CF. 332-J-1/8-CP
R905	06E22052S01	RES, CF. 272-J-1/10-CP
R906	06E23689S01	RES, CF. 7R5-J-1/10-CP
R907	06E22074S01	RES, CF. 102-J-1/4-CP
VR101	18E20880S01	VR, 50KAX2 RK0971210(GAIN)
VR102	18E20880S01	VR, 50KAX2 RK0971210(GAIN)
VR201	18E20879S01	VR, 20KEX4 RK0971410(CROSSOVER)
VR202	18E20879S01	VR, 20KEX4 RK0971410(CROSSOVER)
VR601	18E20754S01	VR, EVN DJA A03 B10K-RD

Symbol No.	Part No.	Description
Connectors		
CB101 CN101 CN103 CN104	01E31009S01	ASSY, CON 9P-9P
CB102 CN102	01E31010S01	ASSY, CON 2P-2P
CB901	09E27780S01	CONN BASE, GIL-S-02P
LED P.W.Board		
LED		
LED901	48E29328S01	LED, SG3511(GRN)
Capacitors		
C903	08E22510S01	CAP, CER. 181-J-CP 50V
Connectors		
CN901	01E27750S01	2P CONNECTOR, ASSY
Miscellaneous		
BKT901	29T15245Y01	FUSE TERMINAL 3P-M4
BKT902	09E29255S01	BLOCK TERMINAL 8P
F901	65E25308S01	FUSE, AUTO 30A(For Battery Line)
RCA101	09T15354Y02	RCA JACK 04P(INPUT)
RCA102	09E25594S01	RCA JACK 02P(PRE OUT)
SP101	01E29382S01	TERM HOU 5569-8A1

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Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
5		14E25521S01	Insulator, LED
6		03E09416S09	Screw, TPG-TPT (M3X10)
7		03E09416S10	Screw, TPG-TPT (M3X8)
8		03E24424S01	Screw, TPG-TPT (M2.6X5)
9		03E29347S01	Screw, TPG-TPT (M3X11)
10		03E09417S05	Screw, MCH-TPT (M2.6X5)
11		03E09417S08	Screw, TPG-TPT (M3X5)
12		03E20920S01	Screw, TPG-TPT (M3X5)
13		03E20922S01	Screw, TPG-TPT (M3X11)
14		15E11445S01	Cover, Switch
15		15E31043S01	Cover, Plate
16		64E31044S01	Badge(V12), Plate
18		61E29351S01	Lens, LED
21		07E11146S01	Bracket, Transistor
22		15E29379S01	Holder, LED
23		03E29348S01	Screw, TPG-TPT (M3X8)
26		14E11487S01	Insulator, Sheet-B
27		14E20977S01	Insulator, Sheet-A
30		07E27744S01	Bracket, GND-A

Symbol No.	Index	Part No.	Description

Exploded View (Cabinet)